

## UNITED STATES PATENT AND TRADEMARK OFFICE

ENITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,441 11/20		11/20/2003	/2003 Yumin Liu	SYMYX/8DIVCO	2966
1473	7590	07/23/2004		EXAMINER	
	NEAVE ENUE OF	THE AMERICAS	NGUYEN, CAM N		
50TH FLOOR				ART UNIT	PAPER NUMBER
NEW YO	NEW YORK, NY 10020-1105			1754	
				DATE MAILED: 07/23/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/719,441	LIU, YUMIN				
Office Action Summary	Examiner	Art Unit				
	Cam N Nguyen	1754				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply to within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS to cause the application to become ABAND	be timely filed ) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
Status						
2a)☐ This action is <b>FINAL</b> . 2b)☑ This 3)☐ Since this application is in condition for alloward	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
Disposition of Claims						
4) ☐ Claim(s) 108-122 is/are pending in the applicated 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 108-122 are subject to restriction and	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine  10) The drawing(s) filed on is/are: a) accomplished any accomplished any objection to the	epted or b)□ objected to by t					
Replacement drawing sheet(s) including the correct  11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is	s objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Appli rity documents have been rec u (PCT Rule 17.2(a)).	cation No eived in this National Stage				
Attachment(s)		(DTO 440)				
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Sumn Paper No(s)/Ma 5) Notice of Inform 6) Other:					

Application/Control Number: 10/719,441 Page 2

Art Unit: 1754

## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claim 108, drawn to a method for preparing a catalyst, classified in class
   502, subclass 104+.
- II. Claims 109-116, drawn to a method for preparing a C<sub>2</sub> to C<sub>4</sub> alkene or a substituted C<sub>2</sub> to C<sub>4</sub> alkene using a catalyst, classified in class 585, subclass 418+.
- III. Claims 117-119, drawn to a method for preparing acetic acid from substituted or unsubstituted ethane using a catalyst, classified in class 562, subclass 607+.
- IV. Claims 120-122, drawn to a method for preparing vinyl chloride from substituted or unsubstituted ethane using a catalyst, classified in class 570, subclass 224+.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions I, II, III, and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions produce different products, that is the product obtained from the method of Group I is not the same as the product obtained by the method of Group II, III, IV, etc. The products are different from each other.
- 3. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, III, IV, etc. and have acquired a

Application/Control Number: 10/719,441

Art Unit: 1754

Page 3

separate status in the art as shown by their different classification, and because of their recognized divergent subject matter, restriction for examination purposes as indicated is

proper.

4. Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Examiner Cam Nguyen, whose telephone number is

(571) 272-1357. The examiner can normally be reached on M-F from 9:30 am. to 6:00

pm.

The appropriate fax phone number for the organization where this application or

proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to telephone number (571) 272-1700.

Cam Nguyen

Nguyen/cnn CM

**Primary Examiner** 

June 21, 2004

Art Unit: 1754